

Egg Drop Experiment

Objective: to investigate the effect that area of a parachute has on air resistance.

Materials:

Plastic bags (2)

Scissors

Meter stick

String

Sandwich bags (3)

Eggs (3)

Stopwatch

Procedure:

1. Make your three parachutes by cutting out squares from your plastic bags.

Size Chart: Small – 10"x10", Medium – 18" x 18", Large – 24" x 24"

2. Attach a piece of string to each corner of your parachutes and attach the other end to the sandwich bag.

3. Place an egg in each sandwich bag.

Make a prediction

Which egg do you think has the best chance of surviving? Why?

4. Drop each egg from the 2nd floor of the commons. Record the time each egg fell in the chart below:

Size	Time (seconds)
Small	
Medium	
Large	

***Was your prediction confirmed?

5. Return any materials that are reusable. Throw away anything that is not reusable.

***Follow-up questions:

1. Describe the forces acting on the parachutes as they fell:

2. Why did the parachutes travel differently as they fell?

3. What is the direction of the Air Resistance Force?